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NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered  
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NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and  
USPATFULL/USPAT2  
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAplus  
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in  
INPADOC  
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and  
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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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FILE 'HOME' ENTERED AT 11:21:59 ON 08 JUL 2006

=> file medline, uspatful, dgene, embase, wpids  
COST IN U.S. DOLLARS

SINCE FILE TOTAL  
ENTRY SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'MEDLINE' ENTERED AT 11:22:32 ON 08 JUL 2006

FILE 'USPATFULL' ENTERED AT 11:22:32 ON 08 JUL 2006

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FILE 'WPIDS' ENTERED AT 11:22:32 ON 08 JUL 2006

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=> s polyketide and (starter unit)

L1 582 POLYKETIDE AND (STARTER UNIT)

=> s l1 and (methylthio-acetyl Co A)

L2 0 L1 AND (METHYLTHIO-ACETYL CO A)

=> s l1 and (15-methyl-6-dEB)

L3 10 L1 AND (15-METHYL-6-DEB)

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 10 MEDLINE on STN

TI 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.

AB The erythromycin precursor polyketide 6-deoxyerythronolide B (6-dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coli cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15-methyl-6-dEB. Priming DEBS with endogenous butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method [Jacobsen, J. R., et al. (1997) Science 277, 367-369], which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here demonstrates the utility of metabolic engineering in E. coli to introduce precursor pathways for the production of novel polyketides.

ACCESSION NUMBER: 2003565219 MEDLINE

DOCUMENT NUMBER: PubMed ID: 14640703

TITLE: 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.

AUTHOR: Kennedy Jonathan; Murli Sumati; Kealey James T

CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward, California 94545, USA.

SOURCE: Biochemistry, (2003 Dec 9) Vol. 42, No. 48, pp. 14342-8.  
Journal code: 0370623. ISSN: 0006-2960.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200403

ENTRY DATE: Entered STN: 16 Dec 2003  
Last Updated on STN: 18 Mar 2004  
Entered Medline: 17 Mar 2004

L3 ANSWER 2 OF 10 USPATFULL on STN

TI Method of producing a compound by fermentation  
AB During the production of a product compound by fermentation, the concentration of a precursor compound is maintained within a pre-selected concentration range by having an adsorbent resin in contact with the culture medium. The adsorbent resin reversibly adsorbs precursor compound and, as un-adsorbed precursor compound is converted to product compound, adsorbed precursor compound is released from the resin, thus maintaining the concentration of precursor compound within the pre-selected range.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:151371 USPATFULL  
TITLE: Method of producing a compound by fermentation  
INVENTOR(S): Leaf, Timothy A., Newark, CA, UNITED STATES  
Desai, Ruchir P., Foster City, CA, UNITED STATES  
Licari, Peter, Fremont, CA, UNITED STATES  
Woo, Elaine Jennifer, Jackson, FL, UNITED STATES  
PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, UNITED STATES, 94545 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005130283	A1	20050616
APPLICATION INFO.:	US 2004-913180	A1	20040806 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-493959P	20030808 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KOSAN BIOSCIENCES, INC, 3832 BAY CENTER PLACE, HAYWARD, CA, 94588, US	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	499	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 10 USPATFULL on STN

TI Metabolic pathways for starter units in polyketide biosynthesis  
AB Host cells, such as *E. coli*, are provided with an expression system for making starter units required for biosynthesis of polyketides using the ato pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:126967 USPATFULL  
TITLE: Metabolic pathways for starter units in polyketide biosynthesis  
INVENTOR(S): Kealey, James T., San Anselmo, CA, UNITED STATES  
Dayem, Linda C., San Anselmo, CA, UNITED STATES  
Santi, Daniel V., San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004096946	A1	20040520
APPLICATION INFO.:	US 2003-621206	A1	20030715 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-396513P	20020715 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO, CA, 94304-1018	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	966	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 4 OF 10 USPATFULL on STN  
 TI Production of polyketides  
 AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 ACCESSION NUMBER: 2003:335016 USPATFULL  
 TITLE: Production of polyketides  
 INVENTOR(S): Katz, Leonard, Oakland, CA, UNITED STATES  
 Revill, Peter, Oakland, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003235892	A1	20031225
APPLICATION INFO.:	US 2003-607809	A1	20030627 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-697022, filed on 25 Oct 2000, GRANTED, Pat. No. US 6627427		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161414P	19991025 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	2751	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 5 OF 10 USPATFULL on STN  
 TI Heterologous production of 15-methyl-6-deoxyerthronolide B  
 AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 ACCESSION NUMBER: 2003:260669 USPATFULL  
 TITLE: Heterologous production of 15-methyl-6-deoxyerthronolide B  
 INVENTOR(S): Katz, Leonard, Oakland, CA, United States  
 Revill, Peter, Oakland, CA, United States

PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6627427	B1	20030930
APPLICATION INFO.:	US 2000-697022		20001025 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-161414P	19991025 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Achutamurthy, Ponnathapu	
ASSISTANT EXAMINER:	Kerr, Kathleen	
LEGAL REPRESENTATIVE:	Morrison & Foerster LLP, Kaster, Kevin	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 20 Drawing Page(s)	
LINE COUNT:	3167	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 10 USPATFULL on STN

TI Synthesis of oligoketides

AB Facile methods for preparing diketide and triketide thioesters are disclosed. The resulting thioesters may be used as intermediates in the synthesis of desired polyketides, and may contain functional groups which ultimately reside in side chains on the resulting polyketide and thus can be used further to manipulate the polyketide so as form derivatives. The polyketides produced may also be tailored by glycosylation, hydroxylation and the like. New polyketides and their derivatives and tailored forms are thereby produced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:140533 USPATFULL  
TITLE: Synthesis of oligoketides  
INVENTOR(S): Ashley, Gary, Alameda, CA, UNITED STATES  
Chan-Kai, Isaac C., Hayward, CA, UNITED STATES  
Burlingame, Mark A., San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003096374	A1	20030522
APPLICATION INFO.:	US 2002-214653	A1	20020807 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-492733, filed on 27 Jan 2000, GRANTED, Pat. No. US 6492562		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-117384P	19990127 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	2473	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 10 USPATFULL on STN

TI Novel polyketides and antibiotics

AB Facile methods for preparing diketide and triketide thioesters are disclosed. The resulting thioesters may be used as intermediates in the synthesis of desired polyketides, and may contain functional groups which ultimately reside in side chains on the resulting polyketide and thus can be used further to manipulate the polyketide so as form derivatives. The polyketides produced may also be tailored by glycosylation, hydroxylation and the like. New polyketides and their derivatives and tailored forms are thereby produced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:134055 USPATFULL  
TITLE: Novel polyketides and antibiotics  
INVENTOR(S): Ashley, Gary, Alameda, CA, UNITED STATES  
Chan-Kai, Isaac C., Hayward, CA, UNITED STATES  
Burlingame, Mark A., San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003092140	A1	20030515
	US 7022825	B2	20060404
APPLICATION INFO.:	US 2002-215964	A1	20020808 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-492733, filed on 27 Jan 2000, GRANTED, Pat. No. US 6492562		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-117384P	19990127 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	2475	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 10 USPATFULL on STN

TI Racemic thioesters for production of polyketides  
AB Facile methods for preparing diketide and triketide thioesters are disclosed. The resulting thioesters may be used as intermediates in the synthesis of desired polyketides, and may contain functional groups which ultimately reside in side chains on the resulting polyketide and thus can be used further to manipulate the polyketide so as form derivatives. The polyketides produced may also be tailored by glycosylation, hydroxylation and the like. New polyketides and their derivatives and tailored forms are thereby produced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:326139 USPATFULL  
TITLE: Racemic thioesters for production of polyketides  
INVENTOR(S): Ashley, Gary, Alameda, CA, United States  
Chan-Kai, Isaac C., Hayward, CA, United States  
Burlingame, Mark A., San Francisco, CA, United States  
PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6492562	B1	20021210
APPLICATION INFO.:	US 2000-492733		20000127 (9)

	NUMBER	DATE
·PRIORITY INFORMATION:	US 1999-117384P	19990127 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Weber, Jon P.	
LEGAL REPRESENTATIVE:	Murashige, Kate H., Ashley, Gary, Kaster, Kevin	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 8 Drawing Page(s)	
LINE COUNT:	2434	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
L3	ANSWER 9 OF 10 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN	
TI	6-Deoxyerythronolide B Analogue Production in Escherichia coli through Metabolic Pathway Engineering.	
AB	<p>The erythromycin precursor polyketide 6-deoxyerythronolide B (6-dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coli cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15-methyl-6-dEB. Priming DEBS with endogenous butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method [Jacobsen, J. R., et al. (1997) Science 277, 367-369], which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here demonstrates the utility of metabolic engineering in E. coli to introduce precursor pathways for the production of novel polyketides.</p>	
ACCESSION NUMBER:	2003500654 EMBASE	
TITLE:	6-Deoxyerythronolide B Analogue Production in Escherichia coli through Metabolic Pathway Engineering.	
AUTHOR:	Kennedy J.; Murli S.; Kealey J.T.	
CORPORATE SOURCE:	J.T. Kealey, Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward, CA 94545, United States. kealey@kosan.com	
SOURCE:	Biochemistry, (9 Dec 2003) Vol. 42, No. 48, pp. 14342-14348. .	
	Refs: 21	
	ISSN: 0006-2960 CODEN: BICHAW	
COUNTRY:	United States	
DOCUMENT TYPE:	Journal; Article	
FILE SEGMENT:	004 Microbiology 029 Clinical Biochemistry 037 Drug Literature Index	
LANGUAGE:	English	
SUMMARY LANGUAGE:	English	
ENTRY DATE:	Entered STN: 5 Jan 2004 Last Updated on STN: 5 Jan 2004	

L3 ANSWER 10 OF 10 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Making a product compound by selecting a target concentration for the precursor compound in the culture medium and culturing the producing organism in the culture medium to produce the product compound.  
 AN 2005-434386 [44] WPIDS  
 AB US2005130283 A UPAB: 20050712

NOVELTY - Making a product compound by culturing, in a culture medium containing a precursor compound, a producing organism that converts the precursor compound to the product compound, comprising selecting a target concentration range for the precursor compound in the culture medium, and culturing the producing organism in the culture medium to produce the product compound, is new.

DETAILED DESCRIPTION - Making a product compound by culturing, in a culture medium containing a precursor compound, a producing organism that converts the precursor compound to the product compound, comprises:

(a) selecting a target concentration range for the precursor compound in the culture medium; and

(b) culturing the producing organism in the culture medium to produce the product compound, the culture medium being in contact with a resin that reversibly binds the precursor compound so that the concentration of unadsorbed precursor compound in the culture medium is maintained within the target concentration range by the release of the precursor compound bound to the resin as the precursor compound is converted to the product compound.

USE - The method is useful for making a product compound by fermentation.

Dwg. 0/4

ACCESSION NUMBER: 2005-434386 [44] WPIDS  
DOC. NO. CPI: C2005-133303  
TITLE: Making a product compound by selecting a target concentration for the precursor compound in the culture medium and culturing the producing organism, in the culture medium to produce the product compound.  
DERWENT CLASS: A13 A96 B04 D16  
INVENTOR(S): DESAI, R P; LEAF, T A; LICARI, P; WOO, E J  
PATENT ASSIGNEE(S): (KOSA-N) KOSAN BIOSCIENCES INC  
COUNTRY COUNT: 1  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2005130283	A1	20050616 (200544)*		10	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2005130283	A1 Provisional	US 2003-493959P US 2004-913180	20030808 20040806

PRIORITY APPLN. INFO: US 2003-493959P 20030808; US  
2004-913180 20040806

=> d his

(FILE 'HOME' ENTERED AT 11:21:59 ON 08 JUL 2006)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS' ENTERED AT 11:22:32 ON 08 JUL 2006

L1 582 S POLYKETIDE AND (STARTER UNIT)  
L2 0 S L1 AND (METHYLTHIO-ACETYL CO A)  
L3 10 S L1 AND (15-METHYL-6-DEB)

=> s ((Methylthio)acetyl CoA)

MISSING OPERATOR ETHYLTHIO)ACETYL

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s "methylthio-acetyl CoA"  
L4 2 "METHYLTHIO-ACETYL COA"  
  
=> d 14 ti abs ibib tot  
  
L4 ANSWER 1 OF 2 USPATFULL on STN  
TI Metabolic pathways for starter units in polyketide biosynthesis  
AB Host cells, such as *E. coli*, are provided with an expression system for  
making starter units required for biosynthesis of polyketides using the  
ato pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004126967 USPATFULL  
TITLE: Metabolic pathways for starter units in polyketide  
biosynthesis  
INVENTOR(S): Kealey, James T., San Anselmo, CA, UNITED STATES  
Dayem, Linda C., San Anselmo, CA, UNITED STATES  
Santi, Daniel V., San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004096946	A1	20040520
APPLICATION INFO.:	US 2003-621206	A1	20030715 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-396513P	20020715 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO, CA, 94304-1018	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	966	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 2 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Recombinant host cell derived from native host cell by modification with  
an expression vector useful for production of polyketides e.g.  
15-chloro-6-deoxyerythronolide B using starter units.  
AN 2004-143102 [14] WPIDS  
AB WO2004007688 A UPAB: 20040226  
NOVELTY - A recombinant host cell derived from native host cell by  
modification with an expression vector, produces a polyketide using a  
starter unit (A). The native host is incapable of producing (A), and the  
vector expresses at least one protein that produce (A); or the native host  
cell produces (A) and the vector overexpresses at least one protein whose  
expression results in increased production of (A).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for  
production of 6-deoxyerythronolide B (6-dEB) modified by replacement of  
the propionate starter unit in the recombinant host cell involving  
culturing the host cell for the production of the analog of 6-dEB.

USE - For production of polyketides including 14-desmethyl-6dEB,  
15-methyl-6dEB, 15-fluoro-6dEB, 15-chloro-6dEB, 15-trifluoro-6dEB,  
15-hydroxy-6dEB, 15-desmethyl-14-fluoro-6dEB, 14-hydroxy-6dEB,  
14-desmethyl-14-(methylthio)-6dEB, 14-desmethyl-14-chloro-6dEB,  
14-desmethyl-14-hydroxy-6dEB, 15-(chloromethyl)-6dEB, 14-ethyl-6dEB, and  
15-ethyl-6dEB) (claimed) which are useful for medical, veterinary, and  
agriculture purposes.

ADVANTAGE - The recombinant host cells facilitate efficient and cost  
effective synthesis of non-naturally occurring new polyketides.

Dwg. 0/1

ACCESSION NUMBER: 2004-143102 [14] WPIDS  
DOC. NO. CPI: C2004-057704  
TITLE: Recombinant host cell derived from native host cell by  
modification with an expression vector useful for  
production of polyketides e.g. 15-chloro-6-  
deoxyerythronolide B using starter units.  
DERWENT CLASS: B04 B05 D16  
INVENTOR(S): DAYEM, L C; KEALEY, J T; SANTI, D V  
PATENT ASSIGNEE(S): (DAYE-I) DAYEM L C; (KEAL-I) KEALEY J T; (SANT-I) SANTI D V; (KOSA-N) KOSAN BIOSCIENCES INC  
COUNTRY COUNT: 105  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2004007688	A2	20040122 (200414)*	EN 27		
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
US 2004096946	A1	20040520 (200434)			
AU 2003253949	A1	20040202 (200450)			
AU 2003253949	A8	20051103 (200629)			

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004007688	A2	WO 2003-US22231	20030715
US 2004096946	A1 Provisional	US 2002-396513P	20020715
		US 2003-621206	20030715
AU 2003253949	A1	AU 2003-253949	20030715
AU 2003253949	A8	AU 2003-253949	20030715

#### FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003253949	A1 Based on	WO 2004007688
AU 2003253949	A8 Based on	WO 2004007688

PRIORITY APPLN. INFO: US 2002-396513P 20020715; US  
2003-621206 20030715

=> e kealey, j/au

E1	1	KEALEY W DAVID C/AU
E2	1	KEALEY W F/AU
E3	0 -->	KEALEY, J/AU
E4	1	KEALHOFER L/AU
E5	1	KEALHOFER S/AU
E6	1	KEALHOFER STEPHEN/AU
E7	4	KEALIHER A/AU
E8	1	KEALING J E/AU
E9	5	KEALL A/AU
E10	2	KEALL C L/AU
E11	5	KEALL D D/AU
E12	1	KEALL G C/AU

# Refine Search

## Search Results -

Terms	Documents
L3 and (15-methyl-6-dEB)	2

Database:

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US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
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Derwent World Patents Index  
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DATE: Saturday, July 08, 2006 [Printable Copy](#) [Create Case](#)

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result set

DB=USPT; PLUR=YES; OP=OR

<u>L4</u>	L3 and (15-methyl-6-dEB)	2	<u>L4</u>
<u>L3</u>	L2 and (methylthio-acetyl CoA)	205	<u>L3</u>
<u>L2</u>	polyketide and (starter unit)	489	<u>L2</u>
<u>L1</u>	kealey.in.	23	<u>L1</u>

END OF SEARCH HISTORY

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## Search Results - Record(s) 1 through 5 of 5 returned.

### 1. Document ID: US 7033818 B2

L6: Entry 1 of 5

File: USPT

Apr 25, 2006

US-PAT-NO: 7033818

DOCUMENT-IDENTIFIER: US 7033818 B2

TITLE: Recombinant polyketide synthase genes

DATE-ISSUED: April 25, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20020173008 A1 November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hu; Zhihao	Hayward	CA		US
McDaniel; Robert	Palo Alto	CA		US
Santi; Daniel V.	San Francisco	CA		US

US-CL-CURRENT: [435/252.33](#); [435/254.2](#), [435/320.1](#), [435/471](#), [536/23.1](#), [536/23.2](#)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Ima](#)

### 2. Document ID: US 7022825 B2

L6: Entry 2 of 5

File: USPT

Apr 4, 2006

US-PAT-NO: 7022825

DOCUMENT-IDENTIFIER: US 7022825 B2

TITLE: Polyketides and antibiotics

DATE-ISSUED: April 4, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20030092140 A1 May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashley; Gary	Alameda	CA		US
Chan-Kai; Isaac C.	Hayward	CA		US
Burlingame; Mark A.	San Francisco	CA		US

US-CL-CURRENT: [536/7.2](#); [435/75](#)

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**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashley; Gary	Alameda	CA		
Chan-Kai; Isaac C.	Hayward	CA		
Burlingame; Mark A.	San Francisco	CA		

**US-CL-CURRENT:** 568/75; 424/70.51

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Terms	Documents
L5 and (15-methyl-6-dEB)	5

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